IN THE CLAIMS

Claims:

- (previously presented) Method of measuring the tilt of an optical disc (2) in an optical disc drive (1), said method comprising:
 - a step of directing to the optical disc during a normal phase (T_{OFF}) , a first laser beam (32) having a first optical characteristic for writing/reading information into/from the optical disc,
 - a step of deriving a first intermediate value (RES(OFF)) from a first normalized error signal obtained after reflection of said first laser beam (32) on the optical disc,
 - a step of directing to the optical disc during a tilt- measuring phase (T_{ON}) , said first laser beam (32) and a second laser beam (42) having a second optical characteristic,
 - a step of deriving a second intermediate value (RES(ON)) from a second normalized error signal obtained after reflection of said first and second laser beams (32, 42) on the optical disc,
 - a calculation step of deriving a tilt-indicative signal $(S_{\scriptsize TILT})$ from the difference between said second and first intermediate values.

- 2. (previously presented) Method according to claim 1, wherein the first laser beam (32) has a first wavelength and wherein the second laser beam (42) has a second wavelength.
- 3. (previously presented) Method according to claim 2, wherein the second laser beam (42) has a focus point coinciding with a focus point of the first laser beam (32).
- 4. (previously presented) Method according to claim 1, wherein :
 - the first laser beam (32) has a first focus point,
 - the second laser beam (42) has a second focus point located at an axial distance from the first focus point.
- 5. (previously presented) Method according to claim 4, wherein the first laser beam (32) and the second laser beam (42) have the same wavelength.
- 6. (previously presented) Method according to claim 1, wherein :
 - the first laser beam (32) has a first wavelength, and the second laser beam (42) has a second wavelength,

- the first laser beam (32) has a first focus point, and the second laser beam (42) has a second focus point located at an axial distance from the first focus point.
- 7. (previously presented) Method according to claim 1, wherein, in the tilt measuring phase (T_{OH}) , the intensity of the second light beam (42) is intended to continuously rise from zero to a maximum value at approximately half-time (t0) of the tilt measuring phase (T_{OH}) , and subsequently intended to continuously decrease from said maximum value to zero.
- 8. (previously presented) Method according to claim 1, wherein :
 - the first intermediate value (RES(OFF)) is obtained shortly before the start (t1) or shortly after the end (t2) of the tilt measuring phase (T_{OB}),
 - the second intermediate value (RES(ON)) is obtained within the tilt measuring phase (Ton).
- 9. (previously presented) Method according to claim 1, wherein :
 - the first intermediate value (RES(OFF)) is derived from the average of a first measure obtained shortly before the start (t1) of the tilt measuring phase (T_{OH}), and a second measure

- obtained shortly after the end (t2) of the tilt measuring phase ($T_{\rm OH}$),
- the second intermediate value (RES(ON)) is obtained within the tilt measuring phase (Ton).
- 10. (previously presented) Method according to claim $8-e \pm -9$, wherein the second intermediate value (RES(ON)) is obtained from a measure obtained at a central time (t0) within the tilt measuring phase (T_{ON}).
- 11. (previously presented) Method according to anyone of claims 1 to $10 \, \mathrm{claim} \ 1$, further comprising a step of freezing, during the tilt measuring phase (T_{ON}), the actuation of at least one lens actuator of the optical disc drive (1).
- 12. (previously presented) Optical disc drive (1) for writing/reading information into/from an optical disc (2), said optical disc drive (1) comprising means for measuring the tilt of said optical disc (2), said means comprising:
 - first means for generating and directing to the optical disc during a normal phase (T_{OFF}), a first laser beam (32) having a first optical characteristic for writing/reading information into/from the optical disc,

- calculation means (90) for deriving a first intermediate value (RES(OFF)) from a first normalized error signal obtained after reflection of said first laser beam (32) on the optical disc.
- second means for generating and directing to the optical disc during a tilt-measuring phase (T_{ON}) , said first laser beam (32) and a second laser beam (42) having a second optical characteristic.
- calculation means (90) for deriving a second intermediate
 value (RES(ON)) from a second normalized error signal obtained
 after reflection of said first and second laser beams (32, 42)
 on the optical disc,
- calculation means (90) for deriving a tilt-indicative signal $(S_{\scriptsize TILT})$ from the difference between said second and first intermediate values.
- 13. (previously presented) Optical disc drive according to claim
 12, wherein the first laser beam (32) has a first wavelength and
 wherein the second laser beam (42) has a second wavelength.
- 14. (previously presented) Optical disc drive according to claim
 13, wherein the second laser beam (42) has a focus point coinciding with a focus point of the first laser beam (32).

- 15. (previously presented) Optical disc drive according to claim
 12. wherein:
 - the first laser beam (32) has a first focus point,
 - the second laser beam (42) has a second focus point located at an axial distance from the first focus point.
- 16. (previously presented) Optical disc drive according to claim
- 15, wherein the first laser beam (32) and the second laser beam
- (42) have the same wavelength.
- 17. (previously presented) Optical disc drive according to claim
 12. wherein:
 - the first laser beam (32) has a first wavelength and wherein the second laser beam (42) has a second wavelength,
 - the first laser beam (32) has a first focus point and wherein the second laser beam (42) has a second focus point located at an axial distance from the first focus point.
- 18. (previously presented) Optical disc drive according to claim
- 12, further comprising:
 - an objective lens (34),
 - lens actuators (51, 52, 53) for positioning the objective lens (34),

- means for freezing, during the tilt measuring phase (T_{ON}) , the actuation of at least one lens actuator (51, 52, 53).
- 19. (previously presented) Optical disc drive according to anyone of claims 12 to 18claim 12, intended to handle one disc type (for example CD or DVD or Blu-Ray) only, wherein the second light generating device (41) is an auxiliary light source.
- 20. (previously presented) Optical disc drive according to anyone of claims 12 to 18claim 12, intended to handle at least two different disc types (for example : CD, DVD, Blu-Ray), wherein :
 - the first means for generating and directing are adapted to generate the first light beam (32) suitable for handling a first one of said disc types,
 - the second means for generating and directing are adapted to generate the second light beam (42) suitable for handling a second one of said disc types.